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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: THERMALCOTE I

GENERAL USE: Heat transfer compound

PRODUCT DESCRIPTION: White paste, mild characteristic odor

AAVID THERMALLOY

MANUFACTURER'S NAME Aavid Thermalloy, LLC.	DATE PREPARED: December 18, 2001 SUPERSEDES: July 24, 2001
ADDRESS (NUMBER, STREET, P.O. BOX) 80 Commercial St.	TELEPHONE NUMBER FOR INFORMATION (603) 527-2292
(CITY, STATE AND ZIP CODE) COUNTRY Concord, NH 03301 USA	EMERGENCY TELEPHONE NUMBER CHEM • TEL (800) 255-3924 Outside USA (813) 248-0585
DISTRIBUTOR'S NAME Same	
ADDRESS (NUMBER, STREET, P.O. BOX)	TELEPHONE NUMBER FOR INFORMATION
(CITY, STATE AND ZIP CODE) COUNTRY	EMERGENCY TELEPHONE NUMBER

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	% (by weight)	OSHA PEL PPM	OSHA PEL MG/M^3	ACGIH TWA PPM	ACGIH TWA MG/M^3	SARA TITLE III	RQ LBS
Polydimethylsiloxane (b)	63148-62-9	30 - 60	not established					
Zinc oxide (as zinc) (a)	1314-13-2	30 - 60	15		10		Yes	

(a) See Section 15

(b) This product is not considered a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200). However, certain regulatory agencies, government agencies or states may require the listing of this product or the product is listed only for information.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White paste, ingestion may cause gastric distress. Exposing product to extreme heat (> 400º F, 204º C) may generate irritating fume.

POTENTIAL HEALTH EFFECTS

INHALATION: None expected, however, certain individuals may experience minor nausea or headaches. Breathing mists or fume may cause irritation to respiratory tract.

SKIN: None expected, however, prolonged contact may cause irritation.

EYES: Contact with eyes may cause irritation.

INGESTION: May cause gastric distress, vomiting and diarrhea.

CARCINOGENICITY NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; if symptoms persist seek medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Flush eyes with water for 15 minutes; if irritation persists, seek medical attention.

INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL: Not applicable	UEL: Not applicable
610° F (321º C) Cleveland open cup ASTM-D-92	AUTOIGNITION TEMPERATURE:	Not determined	NFPA CLASS: **IIIB**

GENERAL HAZARDS: Product will support combustion. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA

Carbon dioxide, water fog, dry chemical, chemical foam

FIRE FIGHTING PROCEDURES

Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material will support combustion!

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes, oxides of carbon, zinc and silicone.

SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WILL SUPPORT COMBUSTION. Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; refer to SARA Title III, Section 313 40 CFR 372 for details concerning reporting requirements.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. CAUTION - This material will support combustion. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTR0LS

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 2 for Component Exposure Guidelines.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved respirator designed to remove airborne mists or fume present in excess of maximum allowable concentrations if user operations generate a mist or fume. Refer to 29 CFR 1910.134 or European Standard EN 149 for regulations.

PROTECTIVE GLOVES: Recommended for general protection

EYE PROTECTION: Recommended for general protection

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (MM Hg) 0.12 mm Hg @ 100° C	VAPOR DENSITY (AIR = 1) Not determined
SPECIFIC GRAVITY (WATER = 1) 1.600	EVAPORATION RATE (WATER = 1) Not determined
SOLUBILITY IN WATER Negligible	FREEZING POINT Not determined
pH Not determined	APPEARANCE AND ODOR White paste, mild characteristic odor
BOILING POINT > 500° F (> 260° C)	PHYSICAL STATE Paste
VISCOSITY Not determined	VOLATILE ORGANIC COMPOUNDS (Total VOC's) None

SECTION 10 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures > 400º F (204º C), open flames

INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, zinc and silicone, hydrocarbons, fumes, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Ingredients	%	CAS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Polydimethylsiloxane (b)	30 - 60	63148-62-9	Not established	Not established
Zinc oxide (as zinc) (a)	30 - 60	1314-13-2	7950 mg / kg Oral - mouse	2500 mg / m3 Inhalation - mouse

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce concentrated hazardous vapors or fumes in a disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for ignitable materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS / Pack Group: None / None
REFERENCE: Not Applicable
IDENTIFICATION NUMBER: None
LABEL: None Required

IATA HAZARD CLASS / Pack Group: None
IMDG HAZARD CLASS: None
RID/ADR Dangerous Goods Code: None
Canadian TDG Class / Division: None
HAZARD SYMBOLS: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic substance Control Act)
Components of this product are listed on the TSCA Inventory.

SARA TITLE III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories
None

313 Reportable Ingredients:
(a) A "Yes" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)
None

CPR (Canadian Controlled Products Regulations
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

IDL (Canadian Ingredient Disclosure List
Components of this product listed on the Canadian Ingredient Disclosure List are shown in Section 2.

EINECS (European Inventory of Existing Commercial Chemical Substances
Components of this product are on the European Inventory of Existing Commercial Chemical Substances

EC Risk Phrases

EC Safety Phrases
S2 Keep out of the reach of children.

CALIFORNIA PROP 65
The following ingredients are present in this product at less than 0.05% and known to the state of California to cause cancer: Lead and Cadmium.
The following ingredients are present in this product at less than 0.05% and known to the state of California to cause reproductive toxicity: Lead and Cadmium.

SECTION 16 - OTHER INFORMATION

No specific notes.

HMIS HAZARD RATINGS	HEALTH	0	0 = INSIGNIFICANT	3 = HIGH
	FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME
	REACTIVITY	0	2 = MODERATE	
	PERSONAL PROTECTIVE EQUIPMENT	A	Safety Glasses	

REVISION SUMMARY: This MSDS has been revised in the following sections:
Section 16, addition of California Prop 65 information.

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The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.